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#12



1600

RAW SEQUENCE LISTING

DATE: 11/05/2002

PATENT APPLICATION: US/09/647,841B

TIME: 16:16:41

Input Set : A:\EP.txt

Output Set: N:\CRF4\11052002\I647841B.raw

3 <110> APPLICANT: Arizona Board of Regents, acting for and on behalf of Arizona State
 4 University
 5 Winicov, Ilga
 7 <120> TITLE OF INVENTION: EXPRESSION OF ALFIN1 AND METHODS FOR PRODUCING TRANSGENIC
 PLANTS HAVING

8 INCREASED ROOT GROWTH AND ROOT SPECIFIC GENE ACTIVATION

10 <130> FILE REFERENCE: 12504.393 formerly 5475-US

12 <140> CURRENT APPLICATION NUMBER: US 09/647,841B

13 <141> CURRENT FILING DATE: 2000-10-05

15 <150> PRIOR APPLICATION NUMBER: PCT/US99/07902

16 <151> PRIOR FILING DATE: 1999-04-08

18 <150> PRIOR APPLICATION NUMBER: US 60/081,348

19 <151> PRIOR FILING DATE: 1998-04-09

21 <150> PRIOR APPLICATION NUMBER: US 60/128,083

22 <151> PRIOR FILING DATE: 1999-04-07

24 <160> NUMBER OF SEQ ID NOS: 11

26 <170> SOFTWARE: PatentIn version 3.1

28 <210> SEQ ID NO: 1

29 <211> LENGTH: 1613

30 <212> TYPE: DNA

31 <213> ORGANISM: Medicago sativa

33 <400> SEQUENCE: 1

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 38 ttaaaattat atatatatat atatatatat atatatatat aataattttt atttatatta 180
 40 ttacgttgat ggtaaaaaaa taaatataat ttgttaccat ttaaaagtca taaatatagt 240
 42 acaatccaac cctttgagag gttaatgtgt gtgcggattt tctagataaa caaggygcca 300
 44 ttcacgattc ttcttggtgc agcttggaga accctatcct gggcttggaa gatttacttc 360
 46 ttgttgatgc ttctagagta cagctcctta agcgtgtagt ctagtttttt ttttcactcct 420
 48 tctacccaaa aaaaaaaaaa tcataaatat agtttatata tataacttta ataaaaataa 480
 50 aaaaatttca tccctaaaaa catagtagaa atttcataaa aaaaatattg tttataattt 540
 52 acatgccgtt acggtaaaaa atggataaat tgggtatgga gtactagtaa ttaataaggt 600
 54 tcattggtta aaaaaactaa aaaataattt ctctcctgat ttatatgaaa tgacattttt 660
 56 ttggaacatg aagggtattg attttttacca cctttttacc ctttcaaagc cattcaagga 720
 58 tgaatataga tttttgggag atcaaacaca agaatcatta cgataacatg cttatacata 780
 60 ccccgtaaat cttctttttt ttacccaata aacattgaaa tgttgcttct ttcgttaagc 840
 62 ataaaaacat caaagtctag caaaatgttg tttttgcgat gacacatttc atatagttaa 900
 64 aaggatgcat gattcgatta caaaaacaaa atactaataa ttctagcaca aagtttaag 960
 66 caatattata aagcttcata gcatgtggat attcatttag aaatatagat tagattgcc 1020
 68 ctttcactac ggggtctaca gcaccacttg tcaactacat tcaaaaatgt cctctagtac 1080
 70 agcaccgctt tttacttgat tcccctgtgc catgcatgaa aaaaatcaaa acaatatttg 1140
 72 gacacacaaa cttgccccca ctttcctttt tctttctgcc ctagtttgtt tgagactcat 1200
 74 attgatcaaa tttggctatg aattcaaaca aaaaattcac tctaccatt gcattgtgtg 1260
 76 ggcccacata taaatccatg aaggatttca atgtccatcc aagtcaatga ttcaacatat 1320

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78 ataacattga ataatttaat tccaatttgc agtattatga tttagattga ttgctgcaat 1380
80 acgggtccgtg aatgtgatca ctcacgagaa agaggatcat aaatttcaag gtattttatt 1440
82 tatttttaac aaataaaatt tcaaggtctt gttcaccata taaacctcct cactcacacc 1500
84 caattctctt aagtgtatga cttcatagta cactacacta ctttctttga aacatggcta 1560
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90 <211> LENGTH: 904
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92 <213> ORGANISM: Medicago sativa
94 <400> SEQUENCE: 2
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99 ctcactactg acgttgaaaa gttttaccag ctgcctgatc ccgaaaagga gaattttgtgc 180
101 ctctatgggt ttccaaatga aacatgggaa gtgaacttgc ctgttgagga agtgcctcct 240
103 gaacttcccg agccagcatt ggggtataaac tttgctcggg atggaatgca ggagaaggac 300
105 tgggttatcac tgggtgcagt tcacagtgc tcattggctgc tcgctgttgc tttctatttt 360
107 ggtgcccgtt ttggatttgg taagaatgat aggaaaaggc tttttcagat gataaatgat 420
109 ctgcccacag tctttgagct tgcaacagga actgctaagg aatcaaagga ccaactgact 480
111 gctcacaaca atggttagca tagcaaatac aaatcaagt gaaagtcccg ccagtctgaa 540
113 tcccagacca aggggtgtgaa gatgtctgca ccggtcaaag aagaggttga cagtggagaa 600
115 gaagaggaag aagatgatga tgaacaagg tgaacctgtg gtgcttgttg tgataattat 660
117 ggcaccgatg aattctggat ctgttgtgat atgtgcgaga aatggttcca tggtaaattg 720
119 gttaaaatta ctctgcca ggctgaacac atcaagcaat acaagtccc tggctgcagt 780
121 atcaagaagc caagaattgg atagctctga acgtttggac cattagcggg caagattaaa 840
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130 <212> TYPE: DNA
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147 <211> LENGTH: 29
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149 <213> ORGANISM: Medicago sativa
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156 <211> LENGTH: 29
157 <212> TYPE: DNA
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167 <213> ORGANISM: Medicago sativa
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174 <211> LENGTH: 29
175 <212> TYPE: DNA
176 <213> ORGANISM: Medicago sativa
178 <400> SEQUENCE: 8
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183 <211> LENGTH: 29
184 <212> TYPE: DNA
185 <213> ORGANISM: Medicago sativa
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192 <211> LENGTH: 27
193 <212> TYPE: DNA
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196 <400> SEQUENCE: 10
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201 <211> LENGTH: 29
202 <212> TYPE: DNA
203 <213> ORGANISM: Medicago sativa
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208 <223> OTHER INFORMATION: n = A, C, T or G
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223 <400> SEQUENCE: 11
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/647,841B

DATE: 11/05/2002
TIME: 16:16:42

Input Set : A:\EP.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 9,13,15